



Congratulations!

FY2002 Batch 1 Competition
PROJECT KICKOFF
MEETING

Date of Kickoff goes here

Company(ies) Name(s) go here

Award Number 70NANBxxxxxx



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Project Management Team (PMT)

Project Manager

Name

Phone Number

Email address

Business Specialist or Technical Specialist

Name

Phone Number

Email address

Grants/Cooperative Agreement Specialist

Name

Phone Number

Email address



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Today's Goals

- Meet team and establish communications
- Discuss key factors for success
 - ATP project management process
 - Grants processes and requirements
 - Project plans and objectives
 - Year 1 technical milestones
 - Commercialization plans and business goals
- Understand how ATP project fits with long-term goals of company

ATP's Comments

- **Background**
 - NIST and ATP: who we are
 - Understanding ATP's perspective
 - Intellectual property
 - FY2002 competition status and results to date
- Establishing Expectations
 - Project management and planning
 - Managing change
 - Reporting requirements
 - Human and animal subjects research
 - Closeout procedures



NIST's Mission

Strengthen the U.S. economy and improve the quality of life by working with industry to develop and apply technology, measurements, and standards.



- 3,000 employees
- \$820 million annual budget
- 1,200 industrial partners
- 1,200 guest researchers
- \$1.5 billion co-funding of industry R&D
- National measurement standards

Helping America Measure Up



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ATP's Mission

*To accelerate the development of
innovative technologies for
broad national benefit through
partnerships with the private sector.*



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National Economic Benefits

ATP Perspective

***ATP cares about the totality of
benefits and costs for the nation***

Private Investor Perspective

***Private investors care about
near-term return on their investment
(the revenues/costs that
affect profitability)***

Two Major Criteria

- Scientific and Technological Merit (**50%**)
 - Technical Rationale
 - technological innovation
 - high technical risk & feasibility
 - R&D Plan
- Potential for Broad-Based Economic Benefits (**50%**)
 - Economic Benefits
 - Need for ATP funding
 - Pathway to Economic Benefit



Intellectual Property: Protection

- ATP protects your intellectual property
- Proprietary technical and business reports/information is exempt from FOIA
- Mark all documents “proprietary”
- E-mail may not be secure



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Intellectual Property Provisions

- U.S. for-profits may retain title to inventions
- Companies may license inventions
- Universities/non-profits:
 - may receive royalties
 - cannot own title
 - cannot be granted exclusive license to inventions
- Any recipient may hold copyright or trademark
- Government reserves right to paid up, royalty-free non-exclusive license for government use
 - not exercised to date



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Thirteen Years of Innovation

- Since 1990, 43 competitions
 - 5,451 proposals, \$11.7 B requested from ATP
- 642 projects awarded
 - 1,329 participants, > 1,300 subcontractors
- 195 joint ventures and 447 single applicants
- \$3.9B of high-risk research funded
 - ATP Share = \$2.0 B
 - Industry Share = \$1.9 B



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Thirteen Years of Innovation (cont'd)

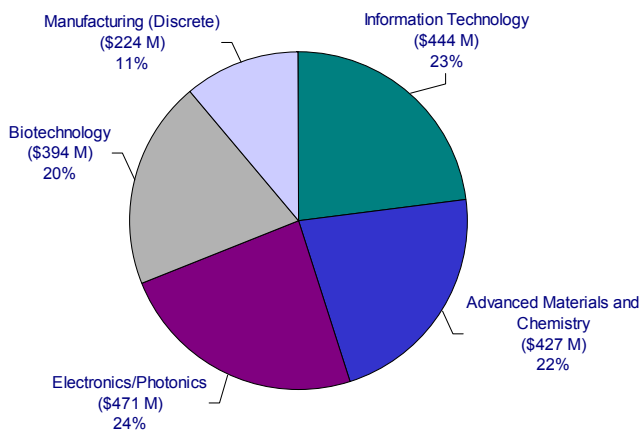
- Small businesses are thriving
 - 63% of projects led by small businesses
 - 337 single company applicants, 69 joint ventures
 - \$984 M in ATP funding
- Over 165 universities represented
 - >580 participation instances, ~\$163 M received
- 25 national laboratories participate
- Over 900 patents



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642 ATP Awards by Technology Area (As a Percent of \$1,960 M Awarded)



Forty Three Competitions (1990 – September 2002)



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FY2002 Batch 1 Competition Results

- *472 proposals submitted*
- *40 awards (announced on October 8, 2002)*
 - *7 joint ventures*
 - *33 single companies*
 - *\$194 M total funding*
 - *\$102 M ATP funds*
 - *\$92 M industry cost share*
 - *\$2.5 M average award size*



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ATP's Comments

- Getting Started
 - NIST and ATP: who we are
 - Understanding ATP's perspective
 - Intellectual property
 - FY2002 competition status and results to date
- **Establishing Expectations**
 - Project management and planning
 - Managing change
 - Reporting requirements
 - Human and animal subjects research
 - Closeout procedures

Project Management and Planning



Project Management Objectives

- Maintain fidelity to original proposal and cooperative agreement governing the award
- Continued fidelity of project to its original merit against ATP selection criteria
- Monitor progress through reports and other communications
- Monitor technological and business environments
- Company makes all business decisions



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ATP Project Management Team Roles

- Project Manager
 - Provides general oversight and PM functions
 - Ensures that the project is executed in accordance with the proposal and the award
 - Recommends appropriate actions to NIST Grants Officer
 - Reviews technical reports and progress against milestones
- Business Specialist
 - Reviews business and commercialization issues
 - Follows diffusion strategy of results beyond commercialization path
- NIST Grants/Cooperative Agreement Specialist
 - Performs cooperative agreement administration
 - Issues final prior approval for changes (Grants Officer)



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Recipient Project Team

- Needs to be well integrated team
- Ensures technical and business personnel work together to accomplish long term commercialization goals
- PI must be familiar with terms and conditions of award, not just the contract administrator

Project Management Tools

- Site visits
 - Kickoff, annual, and close-out meetings
 - Additional meetings, as needed or requested
- Technical and business reports
- Audits
- Open communications
 - phone, email, etc.
- Long-term evaluation

Project Milestones

- Essential element for measuring progress:
 - Define qualitatively and quantitatively what it means to overcome technical barriers
 - Integrate efforts of project tasks
 - Advance state of the technology
 - Describe project's achievements
 - Provide foundation for reporting project activities and accomplishments

Project Milestones (cont'd)

- How ATP uses milestones:
 - Encapsulates scope and merit of original goals
 - Helps in assessment and comparison of alternative pathways
 - Supports flexibility in project by defining critical project decision points
 - Provides foundation for decision point analysis

Annual Meetings

- Comparison of previous year's accomplishments to milestones
- Comparison of budget vs. progress
- Problems/challenges/opportunities
- Review of technology in light of domestic and global advances in technology and market changes
- Commercialization and market developments
- Establish and achieve mutual understanding of technical milestones and business plans for upcoming year

Project Continuations

- Timeline
 - Obligation of next year's funds
 - can occur 1 - 2 quarters before continuation date
 - Authorization to spend next year's funds
 - close to actual continuation date
- Requires
 - Prompt submission of complete technical and business reports, and budget changes
 - Approval of revision of any project elements that may change (i.e., tasks, budget)

Managing Change

Change Happens!

- Change is to be expected in conducting innovative, high risk research
- Keep ATP Project Manager and Grants Specialist informed of possible changes
- ATP encourages change that strengthens the project against the ATP selection criteria and makes project success more likely, without unduly diminishing technical risk



What Kind of Change Matters and Why Does Reporting it Matter?

- Any change in the project that can significantly impact the relationship between the project and ATP's criteria and/or the terms and conditions of the award
- Costs may be disallowed if prior written approval is not obtained
- Eligibility may be affected
- Recipient proceeds "*at your own risk*" prior to approval



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We Need to Talk When a Change Could Impact...

- Milestones, decision points, plans, and task timeline
- Risk profile (increases/decreases too much)
- Commercialization plan and national economic benefits
- Budget
- Human and/or animal subjects protocols
- Changes to joint venture participants
- Company ownership, control, or name



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Change in Name or Ownership

- Report any change in name or ownership to your Grants Specialist in writing within 15 days after the change becomes legally effective
- Grants Specialist will provide samples of documents needed
- If you are no longer majority U.S.-owned or controlled, a foreign eligibility finding will be required by ATP
- Refer to “ATP Eligibility Criteria for U.S. Subsidiaries of Foreign-Owned Companies: Legislation, Implementation, and Results”

[<www.atp.nist.gov/eao/ir-6099contents.htm>](http://www.atp.nist.gov/eao/ir-6099contents.htm)



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Written Prior Approval Required for...

- Change in technical plan/tasks/approach from approved proposal
- Transfer of funds among direct cost categories >10% of total annual approved budget
- Key personnel changes
- Sole source subcontracts over \$100K
- Addition, withdrawal, or substitution of:
 - Subcontractors
 - Joint venture participants
- Change in organizational structure, mergers, acquisitions, new foreign ownership or control, bankruptcy protection
- Changes to JV agreements
- Name change
- Involvement of human and/or animal subjects



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Managing Change

- Identify potential or actual change and notify ATP and the NIST Grants Specialist early and in writing
- Pursue consistent and auditable decision making
 - simplifies project audits re: prior approval/appropriateness
 - protects award recipient from being at risk for costs
 - maintains peer-reviewed merit of projects
 - enables ATP to correctly track all project benefits
- Change should result in a project that is equivalent or stronger against ATP's criteria

Reporting Requirements



Reporting During Award

- Technical Reports
 - Quarterly reports
 - Final technical report
- Financial Reports
- Formatted Business Reports



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Reports Are Used for ...

- Project monitoring
- Continuations
- Documenting project changes
- Short- and long-term evaluation



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Quarterly Technical Report

- Due within 30 days after end of each calendar quarter
 - reports due NLT: April 30, July 31, October 31, January 31
 - reporting periods: Jan - Mar, Apr - June, Jul - Sept and Oct - Dec
- Prepared by PI with input from R&D team
- Submit original report to Grants Specialist
- Submit two copies of report to ATP Project Manager
 - ATP PM will make further distribution to ATP Business Specialist
- Last quarterly report due 30 days following award end date



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Technical Report Content

- Executive Summary
 - Brief statement of project and its end objectives
 - Significant accomplishments during reporting quarter
 - Perspective on status of project in terms of final technical and business objectives
- Project Objectives
- Project Baseline
 - Assess technology at start of project to current state of art
 - Status of technology at large; within team
 - Allows for future assessment of project progress
- Technical Milestones
 - Key remaining ones for the year



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Technical Report Content (cont'd)

- Technical progress and impact
 - Report against milestones and metrics
 - Technical findings in reporting quarter and implications for future progress
 - Gantt chart helpful
 - Identify work and progress of each participant (including subcontractors)
- Problems or opportunities
- Potential project changes (technical or business)
- Highlight any business developments of interest
 - Include this info in business quarterly short-form report

Business Reports

- ATP's Economic Assessment Office (EAO) notifies recipient of business reporting requirements
- EAO explains on-line reporting system
- Each recipient receives a company-specific password for on-line submission

Business Reports (cont'd)

- EAO sends formatted reports to recipients to complete on-line, including:
 - Baseline report
 - Anniversary reports
 - Quarterly short-form reports
 - Close-out report
 - Post-project reports (currently telephone survey)

Business Reporting On-line: Baseline, Anniversary, Closeout

- ATP recipients file following reports on-line via ATP web-based system
 - Baseline reports
 - due within 30 days after end of first calendar quarter
 - Anniversary reports
 - due within 30 days after the end of anniversary quarter
 - Closeout reports
 - due within 90 days after project end



Business Reporting: Quarterly Short-Form Reports

- One page document
 - due 30 days after 2nd, 3rd and 4th calendar quarters
 - submit by hard copy, fax, or email
- Recipient will review and update organization, address, telephone, and contact information
- Recipient will report significant business developments occurring during quarter



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Business Report Content

- General company information
- Business goals and objectives
- Target application areas
- Commercialization strategies
- Collaboration experiences and activities
- Strategies for IP protection and diffusion
- Progress towards commercialization
- Short- and long-term economic impacts



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Business Report Content (cont'd)

- Update on competitive factors
 - Company's position relative to major competitors
 - Current status of the technology (for project baselining)
 - Major cost and/or performance drivers
 - Project fit within company's strategic vision
- Future investment plans



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Summary of ATP Business Reporting System

Key: =web T=Telephone

- Brevity is built in
- Comprehensive level of information
- Confidential-participant

Reporting Schedule

Baseline Quarterly Annual Close-out Post Project

- Business Plans
 - Identification of applications
 - Strategies for commercialization, protection of IP, and dissemination of non-proprietary information
- Significant business developments
- Update of business plan and progress
 - Products, processes, and licensing activity
- Collaboration experiences
- Attraction of new funding
- New IP
- Technology diffusion
- Company financial data
- Next 5 years -- Technical & Business Goals
- Effects outside your organization



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Human and Animal Subjects Research

General Information

- Carefully read the ATP publication entitled
***“Guidelines and Documentation
Requirements for Research Involving
Human and Animal Subjects”***

[<www.atp.nist.gov/atp/kit-02/has_guide/contents/htm>](http://www.atp.nist.gov/atp/kit-02/has_guide/contents/htm)

- To request copy, call 1-800-ATP-FUND



Human Subjects Research Examples

- **Bodily materials** such as cells, blood, urine, tissues, hair, organs, even if you did not collect the materials
- **Humans to test research output** such as products, software usability, human-machine interfaces or materials
- **Data collected** through intervention or interaction with individuals, including data from voice, video, digital or image recordings made for research purposes
- **Private information or data** that can be readily identified with an individual, including genetic information, medical records, worker surveillance studies, even if you did not collect the information
- **Human studies** involving categories or classes of subjects such as certain types of workers in an organization



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Human Subjects Regulations

- NIST requires full compliance with all Presidential Orders, Federal guidelines, regulations and policies
- Human Subject Protection regulations for DOC are found at **15 CFR Part 27**
- Regulations for the protected classes are found at **45 CFR 46 Subpart B, C and D**



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Human Subjects Approvals

- All research involving human subjects must be approved by NIST prior to beginning
- All non-exempt research must be reviewed and approved by an Institutional Review Board (IRB)

Human Subjects Exemptions

- NIST may grant exemptions for research involving human subjects
- Exemptions typically fall into three categories:
 - Normal educational practices in an established or commonly accepted educational setting
 - 15 CFR 27.101(b)(1)
 - Surveys, interviews, observation of public behaviors (unless people can be identified *and* information disclosure poses risk to the individual)
 - 15 CFR 27.101(b)(2)
 - Pre-Existing sources of data or specimens (if publicly available or subjects are not identifiable)
 - 15 CFR 27.101(b)(4)



Human Subjects Non-exempt Research

- NIST is required to review requests for non-exempt research prior to beginning use of human subjects
- An Institutional Review Board (IRB) must review and approve research
 - NIST IRB cannot perform review
 - NIST cannot provide or recommend IRB services
- The IRB reviewing the research must have an assurance on file with OHRP
 - Multiple Project Assurance (MPA)
 - Federal-wide Assurance (FWA)



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Human Subjects Deferred

- Previously deferred research involving human subjects is allowed to begin only after NIST has reviewed and approved the research
- Depending on the type of research, follow the guidelines and documentation requirements



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Animal Subjects Assurances/Certifications

- Each institution housing and caring for live animals must have and maintain at least one of the following:
 - USDA Certification
 - Animal Welfare Assurance (OLAW/AWA)
 - AAALAC Accreditation

Animal Subjects Approvals

- All Animal Study Protocols (ASP's) must have IACUC review and approval prior to beginning research involving animals
- A copy of the approved ASP, the IACUC approval letter and assurance/certification documentation must be submitted to ATP and approved by NIST in advance of using live animals



Human and Animal Subjects Modifications

- Notify ATP well in advance if changes are made to your project that involves the use of human or animal subjects
- Contact Mr. Tryn Stimart at (301) 975-8779 with any questions



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Closeout Procedures



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Closeout Meeting

- Closeout meeting held within last 30 days of award end date
 - if 30 days before, can be charged to project
 - if 30 days after, cannot be charged to project
- Review requirements for completing closeout
- Recipient project team and ATP PMT meet to review entire ATP project
- Recipient project team compares technical accomplishments against milestones
- Discuss any technical activities or remaining barriers for project success
- Discuss current business activities and keys to move project through to commercialization



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Final Technical Performance Report

- Due within 90 days following award end date
- Summarize work performed during entire ATP project
- Discuss technical barriers overcome and milestones achieved
- Discuss plans to achieve any remaining technical milestones
- Review commercialization plans and partnering activities

*Last quarterly technical report
is not the same as the
final technical performance report!*



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Final Business Report

- Due **within 90 days** after project completion
- Document business achievements during project award and discuss future plans for commercialization
- File on-line via ATP web-based business reporting system

Special Economic Studies

- Recipient to participate in a telephone interview to update commercialization activities and other impacts of project
 - Every 2 years for a total of 6 years beyond project completion
- Recipient may be asked to participate in studies conducted through ATP's EAO to:
 - Evaluate success of ATP in achieving its goal of assisting U.S. businesses in technological development to promote U.S. economic growth



NIST Grants Information



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NIST Grants and Agreements Management Division (GAMD) Administrative Highlights for a Single Recipient

Name, Grants Specialist

National Institute of Standards and Technology

Grants and Agreements Management Division

100 Bureau Drive, Stop 3580

Building 411, Room A-143

Gaithersburg, MD 20899-3580

Phone number

Fax number

Email address



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NIST GAMD

- ***Division Head***
George White
- ***Grants Officer***
Marilyn Goldstein
- ***Grants Officer***
Shamim Shaikh
 - Audit Resolution
 - Policy and Procedures



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Grants Officer's Core Responsibilities

- Issue and Administer Cooperative Agreements
- Issue Amendments
 - Continuations
 - No-cost extensions
 - Key personnel changes
 - financial officer, administrator, principle investigator and/or project manager
 - Revised technical plans
 - Revised budgets, etc.
 - Approve revisions to joint ventures
 - Authorize human and animal subject research



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Grants Officer's Core Responsibilities (cont'd)

- Monitor Recipient Compliance with award terms & conditions
- Only Grants Officer Binds the Government and Approves Changes to the Award

Recipient Responsibilities

- Adhere to Terms and Conditions, Related Award Regulations, and Order of Precedence
 - Special Award Conditions (SACs)
 - ATP General Terms & Conditions
 - DoC Financial Assistance Standard Terms and Conditions
 - 15 CFR Part 14
 - Cost Principles
 - ATP Program-Specific Audit Guidelines

Recipient Responsibilities *(cont'd)*

- Written Prior Approval Requirements needed for:
 - Change in technical plan/tasks/approach from approved proposal
 - Transfer of funds among direct cost categories >10% of total annual approved budget
 - Key personnel changes
 - Sole source subcontracts over \$100K
 - Addition, withdrawal, or substitution of:
 - Subcontractors
 - Joint venture participants
 - Change in organizational structure, mergers, acquisitions, new foreign ownership or control, bankruptcy protection
 - Changes to JV agreements
 - Name change
 - Involvement of human and/or animal subjects

Recipient Responsibilities *(cont'd)*

- Report Intellectual Property
- Report Changes in Use of Equipment
- Timely Submission of:
 - Quarterly technical, business and financial reports
 - Final technical, business and financial reports
 - Final patent reports
 - Final equipment inventory
 - Audits

Recipient Responsibilities (cont'd)

- Standards for Financial Management
 - Time tracking system
 - employee time records
 - cost center(s) for project

Recipient Responsibilities (cont'd)

- Procurement Standards
 - Written procedures
 - Competitive procurements
 - Sole source justification
 - Document each procurement or contract
- Keep all Records for Audit Purposes

Recipient Responsibilities (cont'd)

- Budgets
 - Review costs at end of each budget period
 - Submit revised line item budget and budget narrative (Budget Data)
 - Conduct audit using approved budget

Recipient Responsibilities (cont'd)

- Audits
 - Frequency based upon length of project
 - Who gets audited?
 - recipient
 - R&D subcontracts > \$300K over entire award

Recipient Responsibilities (cont'd)

- **Responsibilities of Administrator**

- **Central Point of Contact**
- **Request prior approval for changes**
- **Administer** budget revisions, 10% rule, continuations
- **Withdraw funds using ASAP**
- **Submit** accounting certifications, as appropriate
- **Submit** timely audits
- **Ensure** cost-share is met, if applicable
- **Resolve** special award contingencies in timely manner, if applicable
- **Submit** close-out documentation

Common Audit Problems

- Inadequate documentation
- Failure to obtain prior approval at all, or starting action before approval is obtained
- Late notice of changes
- Activities outside scope of work
- Varying interpretation of rules
- Lack of written policies and procedures in accordance with 15 CFR 14.21(financial management system)



Common Audit Problems (cont'd)

- Estimated costs billed vs. actual
- Issues with valuation of in-kind cost-sharing
- Lack of proper accounting for equipment and depreciation
- Lack of timely reporting
- Failure to comply with award terms and conditions
- Indirect costs (estimates vs. actual)
- Labor cost estimates/average vs. actual



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How to Avoid Audit Problems

- Be familiar with applicable cost principles
- Be familiar with ATP Proposal Preparation Kit
- Be familiar with award terms and conditions
- Expend funds in accordance with approved budget
- Seek written prior approval, when necessary
- Account and report for actual project expenses



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How to Avoid Audit Problems (cont'd)

- Maintain required documentation
- ATP project managers make recommendations to Grants Officer
- Grants Officer is the only Authorizing Official
- Avoid last minute budget changes
- Obtain independent CPA advice
- Prepare financial statement in accordance with GAAP



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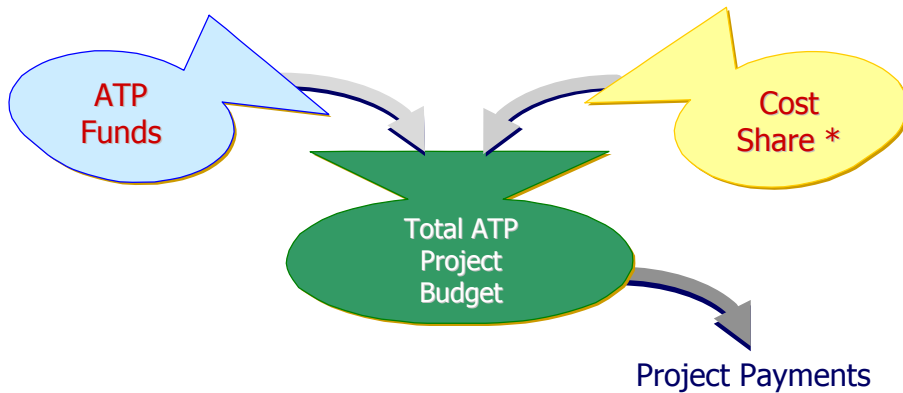
Grants/Cooperative Agreements (An Honors Process)

- Most recipients accomplish project goals with no problems
- Most problems are honest mistakes
- Non-intentional or intentional wrong-doing is discovered
- Enforcement
 - 15 CFR 14.61 and 15 CFR 14.62
 - 15 CFR 24.43 and 15 CFR 24.44



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Relationship Between Cost Share and ATP Funds



* Cost Sharing or matching means that portion of project or program costs not borne by the Federal Government

Method of Payment to Recipient

- Withdrawals through ASAP to meet immediate needs
 - *note:* name change will affect ASAP withdrawals if name change amendment is not issued
- Financial Reports
 - SF-269 submitted on calendar quarter
 - SF-272 submitted to reconcile advanced funds in accordance with 15 CFR 14.52